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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:)	Confirmation No: 8661
)	
Tomoharu Tanaka et al.)	Group Art Unit: 2824
)	
Serial No.: 10/656,139)	Examiner: V. Le
)	
Filed: September 8, 2003)	
)	Atty. Dkt. No. 001701.00676
For: NONVOLATILE SEMICONDUCTOR)	
MEMORY ADAPTED TO STORE)	
A MULTI-VALUED DATA IN A)	
SINGLE MEMORY CELL)	

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

U.S. Patent and Trademark Office
220 20th Street S.
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted for consideration by the United States Patent and Trademark Office in accordance with the duty of disclosure.

Transmitted herewith is:

- ☒ [X] A PTO 1449 form
- ☐ [] A Background Art Information Paper
- ☒ [X] A copy of each item of information listed on the PTO 1449 form
- ☐ [] Concise explanation of non-English language information
- ☐ [] concise explanation of relevance:

- ☐ English translation of foreign language information
 - ☐ English language version of foreign patent office report citing information
 - ☐ English language abstract(s) of foreign patent document(s)
 - ☐ This application relies, under 35 U.S.C. §120, on the earlier filing date of U.S. Application Serial No. ****, filed ***. The information identified on the attached PTO 1449 form was submitted to and/or cited by the Patent and Trademark Office in this earlier application and, therefore, copies are not required to be provided in this application.
1. ☐ This Information Disclosure Statement is filed before the later of:
- ☐ three months from the filing date of this national application;
 - ☐ three months from the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or
 - ☐ the mailing date of a first office action on the merits.
- In accordance with 37 CFR 1.97(b), no fee is required.
2. ☒ This Information Disclosure Statement is filed after the events noted in paragraph 1, but before either:
- ☒ a final action under 37 CFR 1.113, or an action that otherwise closes prosecution,
 - ☐ a Notice of Allowance under 37 CFR 1.311.

In accordance with 37 CFR 1.97(c), also enclosed is

- ☐ a fee under 37 CFR 1.17(p) for \$180.00; or
- ☒ a certification as stated below.

3. ☐ This Information Disclosure Statement is filed before payment of the issue fee, but after either
- ☐ a final action under 37 CFR 1.113, or an action that otherwise closes prosecution;
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In accordance with 37 CFR 1.97(d), also enclosed is:

- ☐ a certification, as stated below; and
- ☐ the IDS processing fee set forth in 37 CFR 1.17(p)(1) in the amount of \$180.00.

Certification

The undersigned states:

- ☐ Each item of Information contained in this Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing date of this Information Disclosure Statement; or
- ☒ No item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Information Disclosure Statement.

TOTAL FEES: \$0.00


- ☐ A check for the amount of the above indicated TOTAL FEES is attached.
- ☐ Please charge Deposit Account No. 19-0733 in the amount of \$180.00.
- ☐ A check for \$ is enclosed.
- ☒ No fee is required.
- ☒ Please charge or credit Deposit Account No. 19-0733 for an deficiency or overpayment associated with this Information Disclosure Statement.

A duplicate copy of this sheet is enclosed for accounting purposes.

It is respectfully requested that the Examiner fully consider each item of information, initial the enclosed Form PTO-1449 in the appropriate place to indicate that the information has been considered, and return a copy of the initialed form to the undersigned in accordance with MPEP Section 609.

Respectfully submitted,

BANNER & WITCOFF, LTD.

By: 

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PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 01701.00676	SERIAL NUMBER 10/656,139
	APPLICANT Tomoharu Tanaka et al.	
	FILING DATE September 8, 2003	GROUP ART UNIT 2824

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	6,545,909	04/2003	Tanaka et al.	365	185.03	
	2003/0053356	03/2003	Sakamoto, Yoshinori	365	200	
	6,487,122	11/2002	Shibata et al.	365	185.22	
	6,377,485	04/2002	Shibata et al.	365	185.03	
	6,363,010	03/2002	Tanaka et al.	365	185.03	
	6,134,148	10/2000	Kawahara et al.	365	185.28	
	6,064,591	05/2000	Takeuchi et al.	365	185.03	
	6,046,935	04/2000	Takeuchi et al.	365	185.03	
	6,014,330	01/2000	Endoh et al.	365	185.17	
	4,827,451	05/1989	Marquot et al.	365	189.01	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
	JP02001266583A	09/2001	Japan	G11C 16/06			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Official Action dated August 12, 2004 for U.S. Serial No. 10/675,946.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	